

**Commonwealth of Kentucky**  
**Division for Air Quality**  
**EXECUTIVE SUMMARY**

**PROPOSED**

Title V, Operating

Permit: V-05-018

Kentucky Utilities Co. – Tyrone Generating Station

6800 Tyrone Pike US 62, Versailles, KY 40383

April 2, 2007

Permit Writer Massoud Kayvanjah

SOURCE ID: 21-239-00001

SOURCE A.I. #: 4244

ACTIVITY ID: APE20040001

**SOURCE DESCRIPTION:**

A Title V Permit renewal application for the Kentucky Utilities Company/Tyrone Generating Station (KU) was received on June 1, 2004, and supplemental documents with revised emissions calculations, including nitrogen oxides (NO<sub>x</sub>) Budget Permit application were received on November 10, 2004 and on September 20, 2005 respectively. This Title V permit will include a renewal of the Phase II Acid Rain Permit and the NO<sub>x</sub> Budget Permit. The facility produces electricity from three generators activated by turbines powered by steam generated from four diesel fuel boilers rated at 464 MMBtu/hr each (Emission Units 01–04) installed in 1947 and 1948, and a coal fired boiler rated at 976 MMBtu/hr (Emission Unit 05) installed 1953. Emission Units 01-04 have no emissions control devices. Emission Unit 05 is equipped with an electrostatic precipitator to control particulates emissions, and a Low NO<sub>x</sub> Burner system to control NO<sub>x</sub> emissions was installed in November 2000. The facility also operates a 7 MMBtu/hr Fuel Oil-Fired Boiler (Emission Unit 07) installed in 1963.

Coal handling for Boiler Unit 05 is operated through Emission Unit 06 that includes the receiving hopper; the primary crusher; (3) conveyor transfer points; and a stockpile. These emission points were constructed prior to 1947 and were in operation in 1947.

**PUBLIC AND AFFECTED STATE REVIEW:**

On January 18, 2007, the public notice on availability of the draft permit and supporting material for comments by persons affected by the plant was published in *The Woodford Sun*, Versailles, Kentucky. The public comment period expired 30 days from the date of publication.

*Comments received*

Comments were received from KU on February 19, 2007. Minor changes were made to the permit as a result of the comments received, however the Division has concluded that the proposed operation will comply with all air quality regulations and requirements. Therefore, the Division has made a final determination to issue a proposed permit. The proposed permit will become final upon approval of the EPA.